



05-03-06

TFe

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/544,180 Confirmation No.: 5006  
Applicant : Mohnen et al.  
371 Filing Date : March 8, 2006  
Int. App. No. : PCT/US2004/003545  
Int. Filing Date : February 5, 2004  
Art Unit : 1638  
Examiner : Not yet assigned  
For : GALACTURONOSYLTRANSFERASES, NUCLEIC  
ACIDS ENCODING SAME AND USES THEREFOR  
Docket No. : 14-03  
Customer No. : 23713

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as EXPRESS MAIL in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

2 May 2006

Date

B. Kroge

B. Kroge

Express Mail Receipt No: EV 758 237 367 US

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

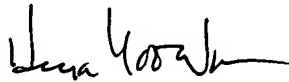
Further to the Information Disclosure Statement filed November 4, 2005, the Examiner is respectfully requested to consider the additional references, copies enclosed, which may qualify as prior art. For the Examiner's convenience, the references are listed on the attached Patent and Trademark Office Form PTO-1449.

Five of the references are abstracts only. Applicants will provide the Examiner with a copy of the full text if so requested.

The references and information provided herewith are cited in a spirit of forthrightness and cooperation to enable Applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that Applicants know of the best art.

It is believed that the present submission does not require the payment of any fees under 37 C.F.R. 1.16-1.17 in view of the statement under 37 C.F.R. 1.97(c)(1). If this is incorrect, however, please deduct any necessary fee from Deposit Account 07-1969.

Respectfully submitted,



Heeja Yoo-Warren  
Reg. No. 45,495

GREENLEE, WINNER AND SULLIVAN, P.C.  
4875 Pearl East Circle, Suite 200  
Boulder, CO 80301  
Telephone (303) 499-8080  
Facsimile: (303) 499-8089  
Email: [winner@greenwin.com](mailto:winner@greenwin.com)

Attorney Docket No.: 14-03  
bmk: May 2, 2006

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

|                        |               |
|------------------------|---------------|
| Application Number     | 10/544,180    |
| Filing Date            | March 8, 2006 |
| First Named Inventor   | Debra Mohnen  |
| Art Unit               | 1638          |
| Examiner Name          |               |
| Attorney Docket Number | 14-03         |

**U.S. PATENT DOCUMENTS**

| Examiner Initial* | Cite No. <sup>1</sup> | Document Number (US-) | Publication Date (MM-DD-YYYY) | Name | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise) |
|-------------------|-----------------------|-----------------------|-------------------------------|------|---|
|                   |                       |                       |                               |      |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initial* | Cite No. <sup>1</sup> | Foreign Patent Document Number (include WIPO country code) | Publication Date (MM-DD-YYYY) | Name | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise) | T <sup>2</sup> |
|-------------------|-----------------------|--|-------------------------------|------|---|----------------|
|                   |                       |  |                               |      |   |                |

**NON-PATENT LITERATURE DOCUMENTS**

| REFERENCE          |                       |   |  |  | T <sup>2</sup>  |
|--------------------|-----------------------|---|--|--|-----------------|
| Examiner Initial*  | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |                 |
|                    |                       | BORKHART, B. et al. "Remodeling pectin structure in potato"; Plant Biology 2000. Annual Meeting of American Society of Plant Physiologists. Vol.2000, pp.81, Abstract.  |  |  |                 |
|                    |                       | CHEUK, R. et al. "Arabidopsis thaliana unknown protein (At3g61130/T20K12_30)mRNA, complete cds"; GenBank, Accession No. BT000630. 25 September 2002.  |  |  |                 |
|                    |                       | MOHNEN, D. et al. "Pectin biosynthesis: Identification of a proposed galacturonosyltransferase gene family in Arabidopsis thaliana"; 227th ACS National Meeting (2004 ACS, Washington DC). Abstract. Mar.28-April 1, 2004.                                      |  |  |                 |
|                    |                       | MOHNEN, D. et al. "Exploring the potential of pectin biosynthetic enzymes for industrial applications"; 230th ACS National Meeting. Aug.28-Sept.01, 2005. Abstract.   |  |  |                 |
|                    |                       | MOHNEN, D. et al. "Pectin synthesis and its relevance to understanding pectin function"; 229 <sup>th</sup> ACS National Meeting. Mar. 13-17, 2005. Abstract.  |  |  |                 |
|                    |                       | MOHNEN, D. et al. "A multi-enzyme approach to study pectin biosyntheses"; Plant Biology 1999. Annual Meeting American Society of Plant Physiologists July 24-28, 1999. Abstract.  |  |  |                 |
|                    |                       | SHINN, P. et al. "Arabidopsis thaliana AT3g61130/T20K12_30 mRNA, complete cds"; GenBank, Accession No. AY039515. 20 June 2001.  |  |  |                 |
|                    |                       | STERLING, J.D. et al. "Functional identification of an Arabidopsis pectin biosynthetic homogalacturonan galacturonosyltransferase"; PNAS March 28, 2006, 103(13):5236-5241.   |  |  |                 |
|                    |                       | TAVARES, R. et al. "Organization and structural evolution of four multigene families in   |  |  |                 |
| Examiner Signature |                       |   |  |  | Date Considered |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here or "x" if English language Translation is attached.

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

|                        |               |
|------------------------|---------------|
| Application Number     | 10/544,180    |
| Filing Date            | March 8, 2006 |
| First Named Inventor   | Debra Mohnen  |
| Art Unit               | 1638          |
| Examiner Name          |               |
| Attorney Docket Number | 14-03         |



| Examiner<br>Initial* | Cite<br>No. <sup>1</sup> | REFERENCE   |                |
|----------------------|--------------------------|---|----------------|
|                      |                          | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|                      |                          | Arabidopsis thaliana: AtLCAD, AtLGT, AtMYST and AtHD-GL2"; Plant Molecular Biology. 2000, 42:703-717.   |                |
|                      |                          | TAVARES, R. "Arabidopsis thaliana LGT1 gene, and partial FUSCA6 gene"; GenBank, Accession No. AJ243015. 01 June 2001.   |                |
|                      |                          |   |                |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here or "x" if English language Translation is attached.